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DAIKIN

technical data

air conditioning systems

RXG-E2V1B

**Outdoor Units,
Pair Application**

Split
Sky Air

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RXG-E2V1B

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1 Features

- Outdoor units for pair application
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.

2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				RXG25E2V1B	RXG35E2V1B
For combination indoor units + outdoor units	Indoor Units			FTXG25EV1BW	FTXG35EV1BW
Nominal Capacity	Cooling	Minimum	kW	1.3	1.4
		Standard	kW	2.5	3.5
		Maximum	kW	3.0	3.8
	Heating	Minimum	kW	1.3	1.4
		Standard	kW	3.4	4.2
		Maximum	kW	4.5	5.0
For combination indoor units + outdoor units	EER	Cooling		4.03	3.30
	COP	Heating		4.15	3.72
	Energy Labeling Directive	Cooling		A	
		Heating		A	
	Annual energy consumption		kWh	310	530
	Indoor Units			FTXG25EV1BS	FTXG35EV1BS
Nominal Capacity	Cooling	Minimum	kW	1.3	1.4
		Standard	kW	2.5	3.5
		Maximum	kW	3.0	3.8
	Heating	Minimum	kW	1.3	1.4
		Standard	kW	3.4	4.2
		Maximum	kW	4.5	5.0
For combination indoor units + outdoor units	EER	Cooling		4.03	3.30
	COP	Heating		4.15	3.72
	Energy Labeling Directive	Cooling		A	
		Heating		A	
	Annual energy consumption		kWh	310	530

2-2 TECHNICAL SPECIFICATIONS				RXG25E2V1B	RXG35E2V1B
Casing	Colour			Ivory White	
Dimensions	Unit	Height	mm	550	550
		Width	mm	765	765
		Depth	mm	285	285
	Packing	Height	mm	589	589
		Width	mm	882	882
		Depth	mm	363	363
Weight	Unit		kg	32	32
	Packed Unit		kg	38	38
Heat Exchanger	Dimensions	Length	mm	805	805
		Nr of Rows		2	2
		Fin Pitch	mm	1.40	1.40
		Nr of Stages		24	24
	Tube type			Hi-Xa(7)	
	Fin	Type		WH fin	
Fan	Type			Propeller	
	Quantity			1	1
	Air Flow Rate (nominal at 230V)	Cooling	m³/min	31.30	31.3
		Heating	m³/min	28.10	28.1
	Motor	Quantity		1	1
		Model		D23A-28	
Motor	Speed (nominal)	Cooling	rpm	810	810
		Heating	rpm	810	810
Fan	Motor	Output	W	35	35

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				RXG25E2V1B	RXG35E2V1B
Compressor	Quantity			1	1
	Motor	Model		1YC23NXD#A	
		Type		Hermetically sealed swing compressor	
		Motor Output	W	600	600
Operation Range	Cooling	Min	°CDB	10.0	10.0
		Max	°CDB	46.0	46.0
	Heating	Min	°CWB	-15.0	-15
		Max	°CWB	20.0	20
Sound Level (nominal)	Cooling	Sound Power	dBA	61.0	62.0
		Sound Pressure	dBA	46.0	47.0
	Heating	Sound Pressure	dBA	47.0	48.0
Refrigerant	Type			R-410A	
	Charge		kg	1.00	1.0
	Control			Motor operated expansion valve	
Refrigerant Oil	Type			FVC50K	
	Charged Volume		l	0.4	0.4
Piping connections	Liquid (OD)	Diameter (OD)	mm	6.35	6.35
	Gas	Diameter (OD)	mm	9.5	9.5
	Drain	Diameter (OD)	mm	18	18
	Piping Length	Maximum	m	20	20
	Additional Refrigerant Charge		kg/m	0.02/>10	
	Max. internunit level difference		m	15.0	15.0
	Heat Insulation			Both liquid and gas pipes	
Standard Accessories	Item			Installation manual	
	Quantity			1	1
	Item			Drain plug	
	Quantity			1	1
Notes				Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.	
				Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m	
				Sound levels are measured in an anechoic room	
				Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer tosound level drawings of this chapter.	
				The sound power level is an absolute value indicating the power which a sound source generates.	

2-3 ELECTRICAL SPECIFICATIONS				RXG25E2V1B	RXG35E2V1B
Power Supply	Name			V1	
	Phase			1	1
	Frequency		Hz	50	50
	Voltage		V	230	230
Current	Nominal running current (RLA)	Cooling (A)	A	3.26	4.76
		Heating (A)	A	4.36	5.06
	Starting current (cooling/ heating)		A	4.5	5.2
Wiring connections	For Power Supply	Quantity		3	3
	For connection with indoor	Quantity		4	4
		Remark		included earth wiring	
Power Supply Intake				Outdoor unit only	

3 Electrical data

RXG+FTXG-E

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXG25EV1BW	RXG25E2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	12	15	49	3.3	35	0.23	40	0.52
		50 - 230					3.2		0.22		0.50
		50 - 240					3.1		0.21		0.48
FTXG25EV1BS	RXG25E2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	12	15	49	3.3	35	0.23	40	0.52
		50 - 230					3.2		0.22		0.50
		50 - 240					3.1		0.21		0.48

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SYMBOLS

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (A)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps (A)
W : Fan Motor Rated Output (W)
RHz : Rated operating frequency(Hz)

NOTES

1 RLA is based on the following conditions:
Indoor temperature 27°CDB/19°CWB
Outdoor temperature 35°CDB

2 Maximum allowable voltage variation between phases is 2%

3 Select wire size based on the larger value of MCA.

4 Instead of fuse, use circuit breaker

5 For more details concerning conditional connections, see http://extranet.daikineurope.com, select "E-Data Books". Finally, click on the document title of your choice.

3 Electrical data

RXG+FTXG-E

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXG35EV1BW	RXG35E2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	12	15	80	4.9	35	0.23	40	0.52
		50 - 230					4.7		0.22		0.50
		50 - 240					4.5		0.21		0.48
FTXG35EV1BS	RXG35E2V1B	50 - 220	Max. 50Hz 264V Min. 50Hz 198V	12	15	80	4.9	35	0.23	40	0.52
		50 - 230					4.7		0.22		0.50
		50 - 240					4.5		0.21		0.48

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SYMBOLS

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (A)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps (A)
W : Fan Motor Rated Output (W)
RHz : Rated operating frequency(Hz)

NOTES

1 RLA is based on the following conditions:
Indoor temperature 27°CDB/19°CWB
Outdoor temperature 35°CDB

2 Maximum allowable voltage variation between phases is 2%

3 Select wire size based on the larger value of MCA.

4 Instead of fuse, use circuit breaker

5 For more details concerning conditional connections, see http://extranet.daikineurope.com, select "E-Data Books". Finally, click on the document title of your choice.

4 Capacity tables

4 - 1 Cooling/Heating capacity tables

RXG + FTXG25E

Cooling

50Hz 220-240V
60Hz 220-230V

AFR	7.4
BF	0.18

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	2.50	1.84	0.46	2.44	1.82	0.52	2.33	1.76	0.57	2.28	1.74	0.59	2.21	1.70	0.61	2.10	1.64	0.66
16.0	22	2.68	1.84	0.48	2.56	1.79	0.52	2.44	1.73	0.57	2.40	1.71	0.59	2.33	1.68	0.62	2.21	1.63	0.66
18.0	25	2.79	1.93	0.48	2.68	1.88	0.53	2.56	1.82	0.57	2.51	1.80	0.59	2.44	1.77	0.62	2.33	1.72	0.66
19.0	27	2.85	2.03	0.48	2.73	1.98	0.53	2.62	1.93	0.57	2.57	1.91	0.59	2.50	1.88	0.62	2.38	1.83	0.67
22.0	30	3.02	1.95	0.49	2.91	1.91	0.53	2.79	1.87	0.58	2.74	1.85	0.60	2.67	1.82	0.62	2.56	1.78	0.67
24.0	32	3.14	1.90	0.49	3.02	1.86	0.54	2.90	1.82	0.58	2.86	1.81	0.60	2.79	1.78	0.63	2.67	1.74	0.67

Heating

50Hz 220-240V
60Hz 220-230V

AFR	7.7

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0	2.27	0.70	2.65	0.74	3.03	0.77	3.49	0.81	3.80	0.84
18.0	2.22	0.71	2.60	0.74	2.99	0.78	3.45	0.82	3.75	0.84
20.0	2.17	0.72	2.56	0.75	2.94	0.78	3.40	0.83	3.71	0.85
21.0	2.15	0.72	2.53	0.75	2.92	0.79	3.38	0.83	3.68	0.86
22.0	2.12	0.72	2.51	0.76	2.89	0.79	3.35	0.83	3.66	0.86
24.0	2.08	0.73	2.46	0.77	2.85	0.80	3.31	0.84	3.61	0.87

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SYMBOLS

AFR	: Air flow rate	(m^3/min)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°CWB)
EDB	: Entering dry bulb temp.	(°CDB)
TC	: Total cooling capacity	(kW)
SHC	: Sensible heating capacity	(kW)
PI	: Power input	(kW)

NOTES

1 Ratings shown are net capacities which include a deduction for indoor fan motor heat

2 shows nominal (rated) capacities and power input.

3 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)

4 SHC is based on each EWB and EDB
SHC1 for any indoor dry-bulb temperatures (EDB1) shall be calculated by the following formula.
SHC*: Correction value of SHC matched with the differential of EDB and EDB1.
SHC*=0.02 X AFR(m^3/min.) X (1-BF) X (EDB1-EDB)
The calculation value of SHC1 = SHC + SHC*

5 Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m

6 Air flow rate (AFR) and Bypass factor (BF) are taburated above.

4 Capacity tables

4 - 1 Cooling/Heating capacity tables

RXG + FTXG35E

Cooling

50Hz 220-240V
60Hz 220-230V

AFR	7.9
BF	0.18

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	2.67	1.97	0.56	2.67	1.97	0.65	2.67	1.97	0.74	2.67	1.97	0.79	2.67	1.97	0.86	2.67	1.97	0.99
16.0	22	3.39	2.23	0.72	3.39	2.23	0.83	3.39	2.23	0.96	3.36	2.21	1.01	3.26	2.17	1.05	3.10	2.08	1.13
18.0	25	3.91	2.49	0.82	3.75	2.41	0.90	3.58	2.34	0.98	3.52	2.31	1.01	3.42	2.26	1.06	3.26	2.18	1.14
19.0	27	3.99	2.60	0.82	3.83	2.52	0.90	3.66	2.44	0.98	3.60	2.41	1.01	3.50	2.37	1.06	3.34	2.30	1.14
22.0	30	4.23	2.49	0.83	4.07	2.42	0.91	3.90	2.36	0.99	3.84	2.33	1.02	3.74	2.29	1.07	3.58	2.23	1.15
24.0	32	4.39	2.42	0.84	4.23	2.35	0.91	4.07	2.29	0.99	4.00	2.27	1.02	3.90	2.23	1.07	3.74	2.17	1.15

Heating

50Hz 220-240V
60Hz 220-230V

AFR	7.9

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0	2.80	0.96	3.27	1.01	3.75	1.06	4.32	1.11	4.70	1.15
18.0	2.74	0.98	3.21	1.02	3.69	1.07	4.26	1.12	4.64	1.16
20.0	2.68	0.99	3.16	1.03	3.63	1.08	4.20	1.14	4.57	1.17
21.0	2.65	0.99	3.13	1.04	3.60	1.08	4.17	1.14	4.43	1.14
22.0	2.62	1.00	3.10	1.04	3.57	1.09	4.14	1.15	4.30	1.12
24.0	2.57	1.01	3.04	1.05	3.51	1.10	4.02	1.14	4.02	1.06

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SYMBOLS

AFR	: Air flow rate	(m^3/min)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°CWB)
EDB	: Entering dry bulb temp.	(°CDB)
TC	: Total cooling capacity	(kW)
SHC	: Sensible heating capacity	(kW)
PI	: Power input	(kW)

NOTES

1 Ratings shown are net capacities which include a deduction for indoor fan motor heat

2 shows nominal (rated) capacities and power input.

3 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)

4 SHC is based on each EWB and EDB
SHC*: Correction value of SHC matched with the differential of EDB and EDB1.
SHC*=0.02 X AFR(m^3/min.) X (1-BF) X (EDB1-EDB)
The calculation value of SHC1 = SHC + SHC*

5 Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m

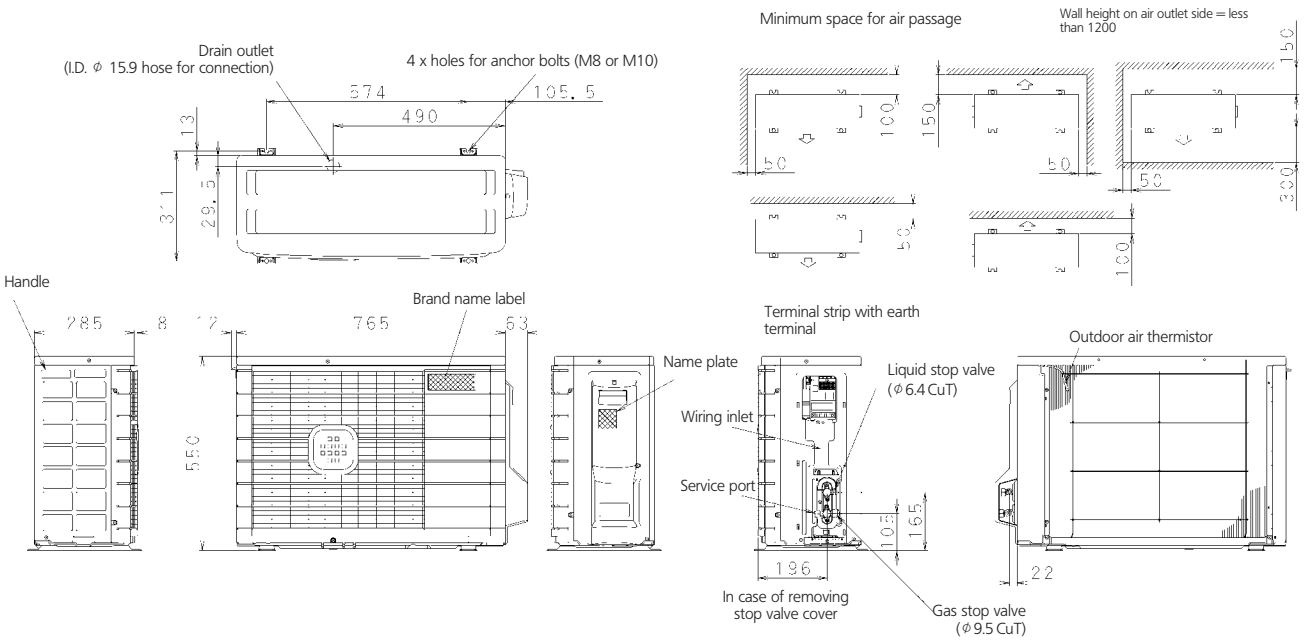
6 Air flow rate (AFR) and Bypass factor (BF) are taburated above.

5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing

RXG25-35E

unit (mm)



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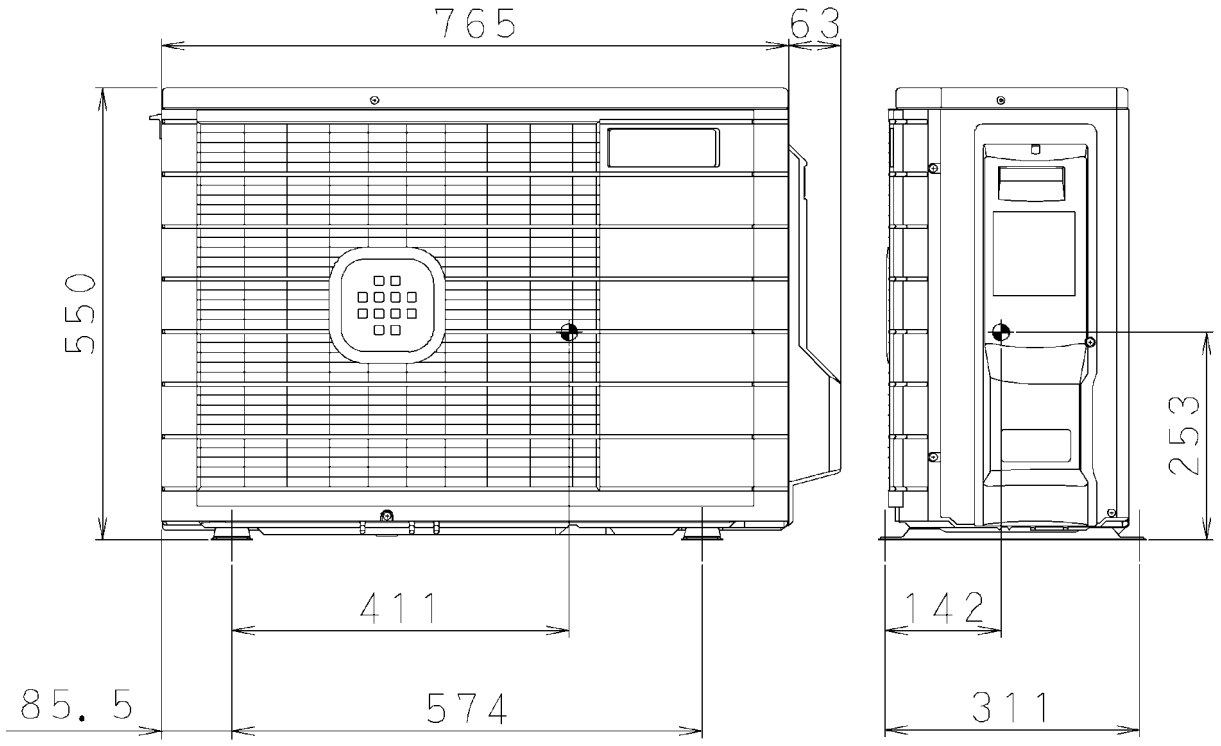
5 Dimensional drawing & centre of gravity

5 - 2 Centre of gravity

RXG25-35E



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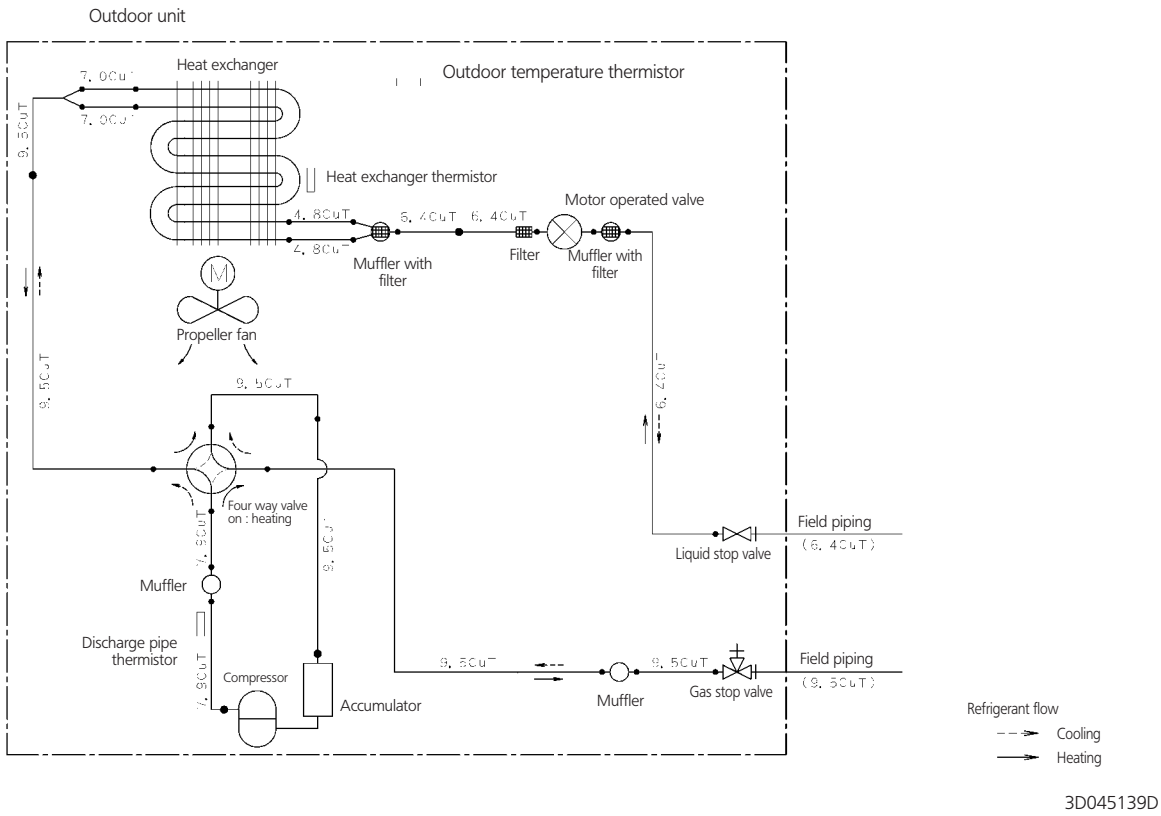
6 Piping diagram

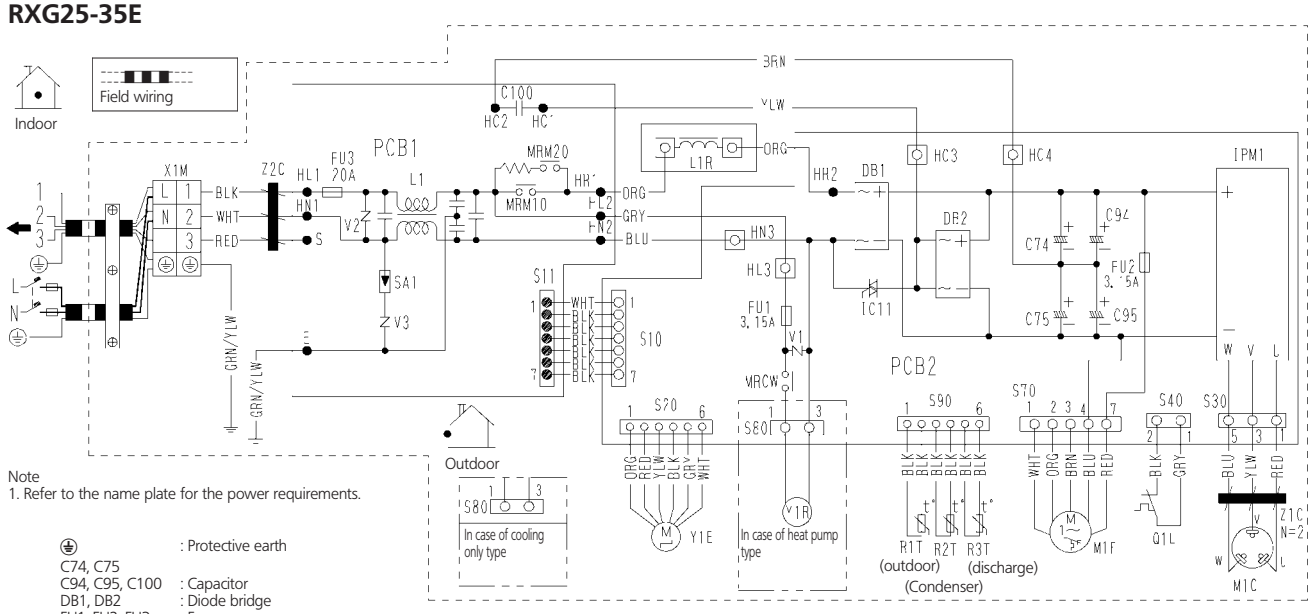
RXG25-35E



7 Wiring diagram

7 - 1 Wiring diagram

RXG25-35E



Note
1. Refer to the name plate for the power requirements.

⏚	: Protective earth
C74, C75 C94, C95, C100	: Capacitor
DB1, DB2	: Diode bridge
FU1, FU2, FU3	: Fuse
LC11	: Solid state relay
LPM1	: Intelligent power module
L	: Live
L1	: Coil
L1R	: Reactor
M1C	: Compressor motor
M1F	: Fan motor
MRCW, MRM10, MRM20	: Magnetic relay
N	: Neutral
PCB1, PCB2	: Printed circuit board
Q1L	: Overload protector

R1T, R2T, R3T, S10 S11, S20, S30, S40 S70, S80, S90, S91	: Thermistor
HC3, HC4, HL3, HN3	: Connector
SA1	: Surge arrester
Z1C, Z2C	: Ferrite core
X1M	: Terminal strip
V1, V2, V3	: Varistor
Y1E	: Electronic expansion valve coil
Y1R	: Reversing solenoide valve coil

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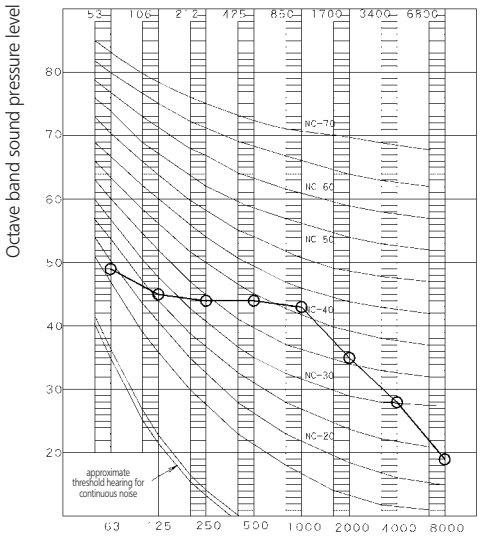
8 Sound data

8 - 1 Sound pressure spectrum

RXG25E (Cooling)



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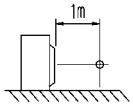
NOTES

1 Measure in anechoic room
2 Operation noise differs with operation and ambient conditions.
3 The operation noise measuring method is in accordance with JISC9612

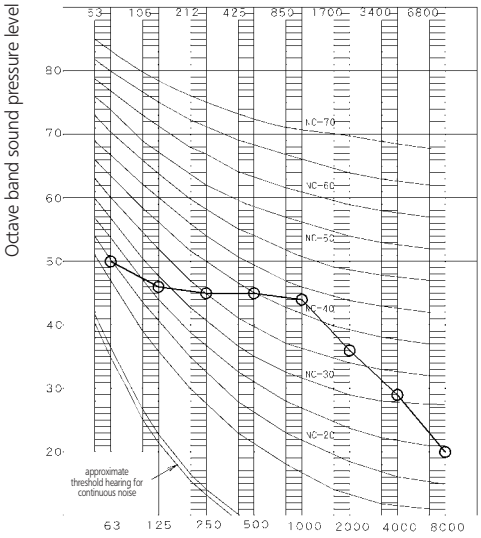
Location of microphone



Legend

50/60Hz, 220-240V

RXG25E (Heating)



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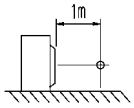
NOTES

1 Measure in anechoic room
2 Operation noise differs with operation and ambient conditions.
3 The operation noise measuring method is in accordance with JISC9612

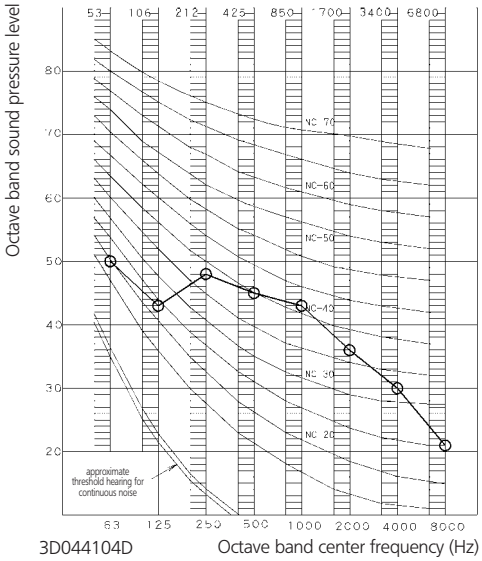
Location of microphone



Legend

50/60Hz, 220-240V

RXG35E (Cooling)



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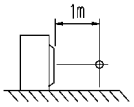
NOTES

1 Measure in anechoic room
2 Operation noise differs with operation and ambient conditions.
3 The operation noise measuring method is in accordance with JISC9612

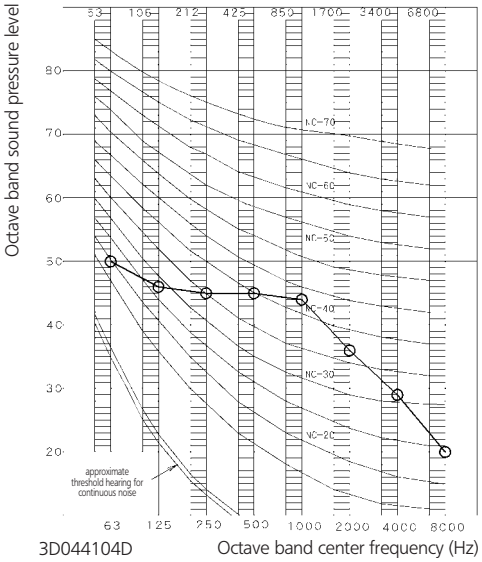
Location of microphone



Legend

50/60Hz, 220-240V

RXG35E (Heating)



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NOTES

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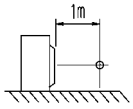
2 Operation noise differs with operation and ambient conditions.
3 The operation noise measuring method is in accordance with JISC9612

Location of microphone

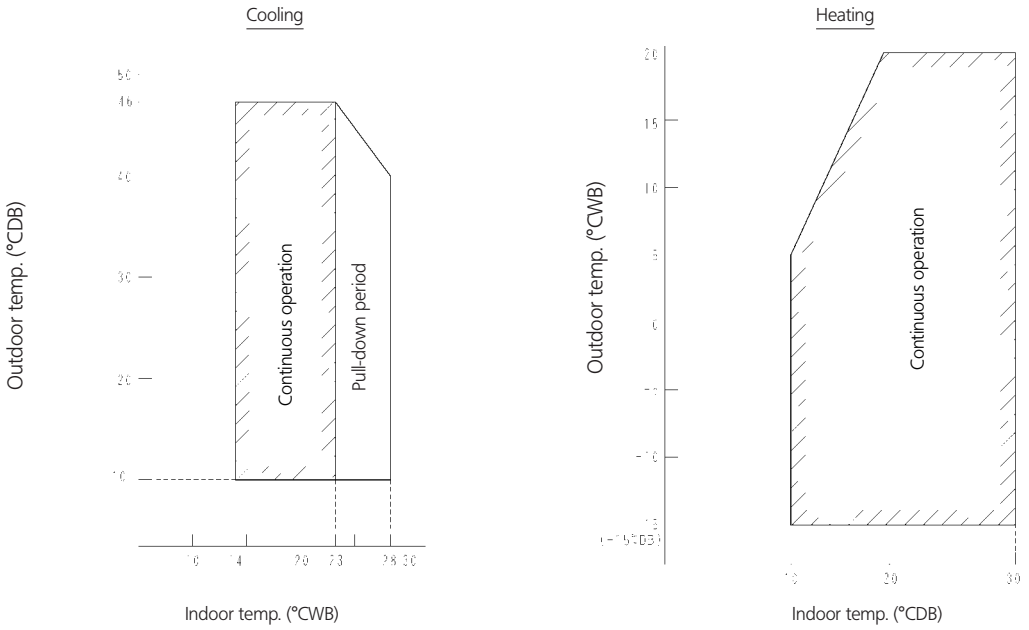


Legend

50/60Hz, 220-240V

9 Operation range

RXG25-35E



Notes:
The graphs are based on the following conditions:
- Equivalent piping length 7.5 m
- Level difference 0 m
- Air flow rate high

3D045140C

Split - Sky Air

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